



35A5

**BEAM POWER AMPLIFIER**

35A5

GENERAL DATA**Electrical:**

Heater, for Unipotential Cathode:

Voltage. . . . . 35.0 . . . . . ac or dc volts  
 Current. . . . . 0.15 . . . . . amp

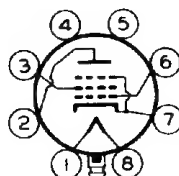
**Mechanical:**

Mounting Position. . . . . Any  
 Maximum Overall Length . . . . . 3-5/32"  
 Maximum Seated Length. . . . . 2-5/8"  
 Maximum Diameter . . . . . 1-3/16"  
 Bulb . . . . . T-9  
 Base . . . . . Lock-in 8-Pin  
 Basing Designation for BOTTOM VIEW . . . . . 6AA

Pin 1 - Heater

Pin 2 - Plate

Pin 3 - Grid No.2

Pin 4 - No  
ConnectionPin 5 - No  
Connection

Pin 6 - Grid No.1

Pin 7 - Cathode,  
Grid No.3

Pin 8 - Heater

Plug - Base  
ShellAF POWER AMPLIFIER - Class A<sub>1</sub>**Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE. . . . . 200 max. volts  
 GRID-No.2 (SCREEN) VOLTAGE . . . . . 125 max. volts  
 PLATE DISSIPATION. . . . . 8.5 max. watts  
 GRID-No.2 DISSIPATION. . . . . 1.0 max. watt  
 PEAK HEATER-CATHODE VOLTAGE:  
 Heater negative with respect to cathode. 90 max. volts  
 Heater positive with respect to cathode. 90 max. volts

**Typical Operation and Characteristics:**

Plate Voltage. . . . .	110	200	. .	volts
Grid-No.2 Voltage . . . . .	110	110	. .	volts
Grid-No.1 (Control-Grid) Voltage . . . . .	-7.5	-8	. .	volts
Zero-Signal Plate Current. . . . .	40	41	. .	ma.
Max.-Signal Plate Current. . . . .	41	44	. .	ma.
Zero-Signal Grid-No.2 Current. . . . .	3.0	2.0	. .	ma.
Max.-Signal Grid-No.2 Current. . . . .	7.0	7.0	. .	ma.
Plate Resistance (Approx.) . . . . .	16000	40000	. .	ohms
Transconductance . . . . .	5800	5900	. .	μmhos
Load Resistance. . . . .	2500	4500	. .	ohms
Total Harmonic Distortion. . . . .	10	10	. .	%
Max.-Sig. Power Output . . . . .	1.5	3.3	. .	watts

**Maximum Circuit Values (for maximum rated conditions):**

Grid-No.1-Circuit Resistance:

For fixed bias . . . . . 0.1 . . megohm  
 For cathode bias . . . . . 0.5 . . megohm

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TUBE DEPARTMENT  
 RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA